BRUHATH BENGALURU MAHANAGARA PALIKE

EXECUTIVE ENGINEER YELAHANKA DIVISION

Name of Work : Construction of Additional Class Rooms for First Floor at Govt Primary School at Kenchenahalli Colony in Ward No-01 BBMP Bangalore.

DETAILED ESTIMATE

Estimate Cost Rs : 50.00 Lakhs

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (Rs.)
1	Earth work excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of Buildings & bridges and such simillar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. 1.4.1 In all kinds of soils Depth upto 1.5 m (Pwd Sr 2023-24 Vol-01 Page No 05 Item No 1.4.1								
	Earthwork	Cum							
	For Back Side Area		1	24.1	0.60	0.30	4.34		
	For LHS Side Area		1	6.5	1.20	0.30	2.34		
	For Front Side Area		1	12.5	11.00	0.30	41.25		
			1	9.9	4.00	0.30	11.88		
	School Front Culvert		1	4.5	1.50	1.00	6.75		
						Total :-	**66.56**	**266.20**	**17,717.74**
	Rata Analysis								
	Basic Rate	242.00							
	Area Weightage @ 10 %	24.20							
	Total Rate	**266.20**							
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. (Pwd Sr 2023-24 Vol-01 Page No 05 Item No 1.9)								
	Filling for Foundation	Cum							
						Qty Vide Item No 2 Consider 70%	46.59		
						Total :-	**46.59**	**292.60**	**13,632.41**
	Rata Analysis								
	Basic Rate	266.00							
	Area Weightage @ 10 %	26.60							
	Total Rate	**292.60**							
3	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications.Mix 1:4:8 Using 40 mm nominal size graded crushed coarse aggregates (Pwd Sr 2023-24 Vol-01 Page No 15 Item No 2.1.2)								
	PCC for Bed Concrete	Cum							
	For Back Side Area		1	24.1	0.60	0.15	2.17		
	For LHS Side Area		1	6.5	1.20	0.15	1.17		
	For Front Side Area		1	12.5	11.00	0.15	20.63		
			1	9.9	4.00	0.15	5.94		
	School Front Culvert		1	4.5	1.40	0.15	0.95		
						Total :-	**30.85**	**6230.40**	**1,92,201.61**
	Rata Analysis								
	Basic Rate	5664.00							
	Area Weightage @ 10 %	566.40							
	Total Rate	**6230.40**							

	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (Rs
4	Providing and laying in position Cement Concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Pwd Sr 2023-24 Vol-01 Page No 15 Item No 2.2.3)								
	M25 Concrete For Roof Slab								
	First Floor Roof Slab		1	20.00	6.00	0.15	18.00		
	Deduction		-1	2.40	2.20	0.15	-0.79		
	For Class Room Stage		4	3.30	1.10	0.20	2.90		
	Head Room Roof Slab		1	4.60	2.40	0.15	1.66		
							21.77		
	School Front Culvert Raft and Deck Slab		2	4.5	1.20	0.15	1.62		
	School Front Culvert Wall		2	4.5	0.30	0.75	2.03		
							3.65		
	For StairCase		1	3.60	1.10	0.15	0.59		
	Waist Slab		1	2.10	1.10	0.15	0.35		
			19	1.10	0.075		1.57		
	Steps		1	2.40	1.25	0.15	0.45		
	Landing		-1	2.4	2.20	0.15	-0.79		
	Enterance Steps		6	3.00	0.075		1.35		
							3.52		
	Rata Analysis					Total :-	28.93	10454.40	3,02,435.34
	Basic Rate	6336.00							
	Area Weightage @ 10 %	633.60							
	Sub Total Rate	**6969.60**							
	Plinth Beams /RCC Roof Slabs @ 50 %	3484.80							
	Total Rate	**10454.40**							
	Lift Charges @ 1%	104.54							
	Total Rate	**10558.94**							
5	**M25 Concrete For Columns**	Cum							
	For Columns		14	0.25	0.45	3.00	4.73		
	For Parapet		14	0.25	0.45	0.90	1.42		
	Rata Analysis					Total :-	6.14	11966.80	73,506.09
	Basic Rate	6336.00							
	Area Weightage @ 10 %	633.60							
	Sub Total Rate	6969.60							
	RCC Columns @ 70 %	4878.72							
	Total Rate	**11848.32**							
	Lift Charges @ 1%	118.48							
	Total Rate	**11966.80**							
6	**M25 Concrete For Lintel Beam**								
	For Long Wall		2	19.80	0.20	0.15	1.19		
	For Short Wall		6	4.60	0.20	0.15	0.83		
	M25 Concrete For Beam								
	For Long Wall		2	19 80	0 30	0.45	5.35		
	For Short Wall		6	5.80	0 30	0.45	4.70		
	Rata Analysis					Total :-	12.06	11262.87	1,35,830.26
	Basic Rate	6336.00							
	Area Weightage @ 10 %	633.60							
	Sub Total Rate	**6969.60**							
	RCC Beams, Lintels @ 60 %	4181.76							

	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (Rs
	Total Rate	11151.36							
	Lift Charges @ 1%	111.51							
	Total Rate	11262.87							
	M25 Concrete For Chajja	Cum							
	For Window Chajja		6	1.50	0.60	0.10	0.54		
						Total :-	0.54	10206.98	5,511.
	Rata Analysis								
	Basic Rate	6336.00							
	Area Weightage @ 10 %	633.60							
	Sub Total Rate	6969.60							
	RCC Chajja @ 45 %	3136.32							
	Total Rate	10105.92							
	Lift Charges @ 1%	101.06							
	Total Rate	10206.98							
8	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification. a. Buildings (Pwd Sr 2023-24 Vol-01 Page No 18 Item No 2.11)								
	TMT Steel	Tonne		M25	Kgs				
	Qty Vide Item No 5 Consider M25 Columns		1	6.14	90.00		552.83		
	Qty Vide Item No 6 Consider M25 Lintel / Beams		1	12.06	110.00		1326.60		
	Qty Vide Item No 4 Consider M25 Roof Slab		1	21.77	90.00		1959.12		
	Qty Vide Item No 4 Consider M25 Staircase		1	3.52	100.00		351.60		
	Qty Vide Item No 4 Consider M25 Culvert		1	3.65	100.00		364.50		
	Qty Vide Item No 7 Consider M25 Chajja		1	0.54	60.00		32.40		
							4587.05	In Kgs	
							4.59	in Tonne	
						Total :-	4.59	99386.73	4,55,891.39
	Rata Analysis								
	Basic Rate	89457.00							
	Area Weightage @ 10 %	8945.70							
	Total Rate	98402.70							
	Lift Charges @ 1%	984.03							
	Total Rate	99386.73							
9	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:2:4 Using 20 mm nominal size graded crushed coarse aggregates (Pwd Sr 2023-24 Vol-01 Page No 15 Item No 2.1.6)								
	M15 Concrete	Cum							
	For Back Side Area		1	24.1	0.60	0.15	2.17		
	For LHS Side Area		1	6.5	1.20	0.15	1.17		
	For Front Side Area		1	12.5	11.00	0.15	20.63		
			1	9.9	4.00	0.15	5.94		
	For Terrace Parapet Wall Copping		2	20.00	0.15	0.10	0.60		
			2	6.00	0.15	0.10	0.18		
	For Terrace WPC		1	20.00	6.00	0.075	9.00		
						Total :-	39.68	6867.30	2,72,521.93
	Rata Analysis								
	Basic Rate	6243.00							

	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (Rs.
	Area Weightage @ 10 %	624.30							
	Total Rate	6867.30							
10	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge. (vol-2 P.No. 133, I.No. 15.1 of PWP & IWTD SR 2023-24)								
	Waterproof for Roof Slab	Sqm							
	For Roof Area		1	20.0	6.00		120.00		
			-1	4.6	2.40		-11.04		
						Total :-	108.96	827.70	90,185.
	Rata Analysis								
	Basic Rate	745.00							
	Area Weightage @ 10 %	74.50							
	Total Rate	819.50							
	Lift Charges @ 1%	8.20							
	Total Rate	827.70							
11	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.(Pwd Sr 2023-24 Vol-02 Page No 17 Item No 6.32)								
	8" Block for Wall	Sqm							
	Class Room 1		2	6.8		2.70	36.72		
			2	4.5		2.70	24.30		
	Class Room 2		2	6.8		2.70	36.72		
			2	4.5		2.70	24.30		
	Gents Toilet								
			1	4.50		2.70	12.15		
	Ladies Toilet								
			1	4.50		2.70	12.15		
	Stair Case Wall		1	2.40		2.70	6.48		
	Gents Toilet		2	1.50		2.70	8.10		
	Ladies Toilet		1	1.76		2.70	4.75		
	Head Room Roof Slab		2	4.60		3.00	27.60		
			2	2.40		3.00	14.40		
	Deductions								
	Door		-2	1.05		2.10	-4.41		
	Window W1		-6	1.55		1.30	-12.09		
	Ventilators V1		-2	0.65		0.65	-0.85		
	Head Room Door		-1	1.20		2.10	-2.52		
						Total :-	187.81	1335.42	2,50,801.60
	Rata Analysis								
	Basic Rate	1202.00							
	Area Weightage @ 10 %	120.20							
	Total Rate	1322.20							
	Lift Charges @ 1%	13.22							
	Total Rate	1335.42							

).	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (Rs.
12	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications..(Pwd Sr 2023-24 Vol-02 Page No 17 Item No 6.34)								
	4" Block for Toilet Wall	Sqm							
	Gents Toilet		1	1.50		2.70	4.05		
	Ladies Toilet		1	1.76		2.70	4.75		
	For Parapet Wall		1	20.00		0.90	18.00		
			2	1.20		0.90	2.16		
	For Terrace Parapet Wall		2	20.00		1.20	48.00		
			2	6.00		1.20	14.40		
	Deductions								
	Door D1		-1	0.75		2.10	-1.58		
						Total :-	89.79	1051.01	94,366.
	Rata Analysis								
	Basic Rate	946.00							
	Area Weightage @ 10 %	94.60							
	Total Rate	1040.60							
	Lift Charges @ 1%	10.41							
	Total Rate	1051.01							
13	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.(Pwd Sr 2023-24 Vol-02 Page No 41 Item No 8.3.1)								
	Outside Plastering	Sqm							
	For Long Wall		2	19 8		3.00	118.80		
	For Short Wall		4	4.8		3.00	57.60		
	For Parapet Wall		1	20 00		0.90	18.00		
			2	1.20		0.90	2.16		
	For Terrace Parapet Wall		2	20 00		0.90	36.00		
			2	6.00		0.90	10.80		
	Head Room Roof Slab		2	4.60		3.00	27.60		
			2	2.40		3.00	14.40		
	Deductions								
	Door		-2	1.05		2.10	-4.41		
	Window W1		-6	1.6		1 30	-12.09		
	Ventilators V1		-2	0.7		0.65	-0 85		
	Staircase		-1	2.4		3.00	-7.20		
	Head Room Door		-1	1 2		2.10	-2 52		
						Total :-	258.30	341.08	88,098.48
	Rata Analysis								
	Basic Rate	307.00							
	Area Weightage @ 10 %	30.70							
	Total Rate	337.70							
	Lift Charges @ 1%	3.38							
	Total Rate	341.08							
14	Providing 15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement: 4 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.(Pwd Sr 2023-24 Vol-02 Page No 41 Item No 8.2.1)								

	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (Rs
	Inside Plastering	**Sqm**							
	Class Room 1		2	6.8		3.00	40.80		
			2	4.5		3.00	27.00		
	Class Room 2		2	6.8		3.00	40.80		
			2	4.5		3.00	27.00		
	Gents Toilet		2	1.5		3.00	9.00		
			1	4.5		3.00	13.50		
	Ladies Toilet		2	1.8		3.00	10.56		
			1	4.5		3.00	13.50		
	Stair Case Wall		1	2.4		3.00	7.20		
	Gents Toilet		2	1.5		3.00	9.00		
	Ladies Toilet		1	1.8		3.00	5.28		
	Head Room Roof Slab		2	4.60		3.00	27.60		
			2	2.40		3.00	14.40		
	Deductions								
	Door		-2	1.1		2.10	-4.41		
	Door D1		-4	-0.8		2.10	6.30		
	Window W1		-6	1.6		1.30	-12.09		
	Ventilators V1		-2	0.7		0.65	-0.85		
	Head Room Door		-1	1.2		2.10	-2.52		
						Total :-	**232.08**	**281.08**	**65,232.**
	Rata Analysis								
	Basic Rate	253.00							
	Area Weightage @ 10 %	25.30							
	Total Rate	278.30							
	Lift Charges @ 1%	2.78							
	Total Rate	281.08							
15	Providing 12 mm cement plaster with cement mortar 1:4 (1 cement: 4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.(Pwd Sr 2023-24 Vol-02 Page No 41 Item No 8.3.1)								
	Ceiling Plastering	**Sqm**							
	Class Room 1		1	6.8	4.50		30.60		
	Class Room 2		1	6.8	4.50		30.60		
	Gents Toilet		1	1.5	4.50		6.75		
	Ladies Toilet		1	1.8	4.50		7.92		
	Corrider		1	20.0	1.20		24.00		
	Head Room Roof Slab		1	4.60	2.40		11.04		
						Total :-	**110.91**	**242.20**	**26,862.18**
	Rata Analysis								
	Basic Rate	218.00							
	Area Weightage @ 10 %	21.80							
	Total Rate	239.80							
	Lift Charges @ 1%	2.40							
	Total Rate	242.20							
16	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.(Pwd SR - 2023-24 Vol-02 Page No-50 Item No-8.51)								
	Wall putty	**Sqm**							
	For Inside Wall QtyVide Item No 14						258.30		
	For Outside Wall Qty Vide Item No 13						232.08		
	For Ceiling Qty Vide Item No 15						110.91		
						Total :-	**601.28**	**92.21**	**55,445.83**

	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (Rs
	Rata Analysis								
	Basic Rate	83.00							
	Area Weightage @ 10 %	8.30							
	Total Rate	91.30							
	Lift Charges @ 1%	0.91							
	Total Rate	92.21							
17	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (vol-2 P.No. 48, I.No. 8.39 of PWP & IWTD SR 2023-24)								
	Inside Painting	Sqm							
	For Inside Wall QtyVide Item No 14						258.30		
	For Ceiling Qty Vide Item No 15						110.91		
						Total :-	369.21	105.55	38,967
	Rata Analysis								
	Basic Rate	95.00							
	Area Weightage @ 10 %	9.50							
	Total Rate	104.50							
	Lift Charges @ 1%	1.05							
	Total Rate	105.55							
18	Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67 ltr/10 m² over and including priming coat of exterior primer applied @ 2.20 kg/10 m²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(P.No. 46, I.No. 8.30 of PWP & IWTD SR 2023-24)								
	Outside Painting	Sqm							
	For Outside Wall Qty Vide Item No 13						232.08		
						Total :-	232.08	151.10	35,065.6
	Rata Analysis								
	Basic Rate	136.00							
	Area Weightage @ 10 %	13.60							
	Total Rate	149.60							
	Lift Charges @ 1%	1.50							
	Total Rate	151.10							
19	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joint with white cement & matching pigments etc. complete.Size of Tile 500x500 mm (P.No. 61, I.No. 9.17.1 of PWP & IWTD SR 2023-24)								
	Tiles Flooring	Sqm							
	For Gents Toilet		1	1 5	1.50		2.25		
			1	1 5	2 80		4.20		
	For Ladies Toilet		1	1 5	1.50		2.25		
			1	1.5	1.76		2 64		
						Total :-	11.34	1151.00	13,052.29
	Rata Analysis								
	Basic Rate	1036 00							
	Area Weightage @ 10 %	103 60							
	Total Rate	1139.60							

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (Rs.)
	Lift Charges @ 1%	11.40							
	Total Rate	1151.00							
20	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer- in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per m2, including pointing in white cement mixed with pigment of matching shade complete.(P.No. 71, I.No. 10.14 of PWP & IWTD SR 2023-24)								
	Tiles Cladding	Sqm							
	Gents Toilet		3	1.50		2.10	9.45		
			1	1.50		2.10	3.15		
			2	2.80		2.10	11.76		
	Ladies Toilet		3	1.50		2.10	9.45		
			1	1.50		2.10	3.15		
			2	1.76		2.10	7.39		
						Total :-	44.35	1082.11	47,993
	Rata Analysis								
	Basic Rate	974.00							
	Area Weightage @ 10 %	97.40							
	Total Rate	1071.40							
	Lift Charges @ 1%	10.71							
	Total Rate	1082.11							
21	Providing & fixing of louvered ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm.Maximum possible size – 1000mm x 1000mm.(The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made) (P.No. 110, I.No. 12.85 of PWP & IWTD SR 2023-24)								
	Ventilators	Sqm							
	V1		2	0.75		0.65	0.98		
						Total :-	0.98	5410.57	5,275
	Rata Analysis								
	Basic Rate	4870.00							
	Area Weightage @ 10 %	487.00							
	Total Rate	5357.00							
	Lift Charges @ 1%	53.57							
	Total Rate	5410.57							
22	Providing & fixing of 2.5 track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 94mm width x 45mm height with reinforcement of 1mm thickness and Sash with overall size of 39mm x 58mm with GI reinforcement of 1.5mm and mesh sash of size 25mm x 42mm. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 5mm plain float glass, standard hardware& single point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 1819mm x 1819mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made) (vol-2 P.No. 111, I.No. 12.89 of PWP & IWTD SR 2023-24)								
	Windows	Sqm							
	W1		6	1.55		1.30	12.09		

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (Rs.
						Total :-	12.09	6490.46	78,469
	Rata Analysis								
	Basic Rate	5842.00							
	Area Weightage @ 10 %	584.20							
	Total Rate	6426.20							
	Lift Charges @ 1%	64.26							
	Total Rate	6490.46							
23	Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge. (P.No. 105, I.No. 12.54 of PWP & IWTD SR 2023-24)								
	PVC Door Frame	Sqm							
	D1		4	0.75		2.10	6.30		
						Total :-	6.30	527.73	3,32
	Rata Analysis								
	Basic Rate	475.00							
	Area Weightage @ 10 %	47.50							
	Total Rate	522.50							
	Lift Charges @ 1%	5.23							
	Total Rate	527.73							
24	Providing & fixing 30mm thick factory made rigid foam Prelam Panelled Door Shutters made from M.S. tube of 19x19mm, 19 gauge for stiles and 15x15mm for top & bottom rails, covered with heat moulded Prelaminated PVC C Channel of 5mm thick sheet & 30x50mm wide to form stiles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S. frame, Sealed to the stiles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75mm Aluminium hinges -do- with both side prelam (P.No. 106, I.No. 12.55.1 of PWP & IWTD SR 2023-24)								
	PVC Door Shutters	Sqm							
	D1		4	0.75		2.10	6.30		
						Total :-	6.30	4225.13	26,61
	Rata Analysis								
	Basic Rate	3803.00							
	Area Weightage @ 10 %	380.30							
	Total Rate	4183.30							
	Lift Charges @ 1%	41.83							
	Total Rate	4225.13							
25	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications.(vol-2 P No. 99, I No. 12.11 of PWP & IWTD SR 2023-24)								
		Each							
	Door-D		4	1.05	0.15	0.10	0.06		
			4	2.10	0.15	0.10	0.13		
						Total :-	0.13	100426.62	12,65
	Rata Analysis								
	Basic Rate	90393.00							
	Area Weightage @ 10 %	9039.30							

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (Rs.
	Total Rate	99432.30							
	Lift Charges @ 1%	994.32							
	Total Rate	100426.62							
26	Providing and fixing in position fully panelled Honne wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures)(vol-2 P.No. 100, I.No. 12.15 of PWP & IWTD SR 2023-24)								
		Sqm							
	Door-D		2	1.05		2.10	4.41		
						Total :-	4.41	5637.21	24,86
	Rata Analysis								
	Basic Rate	5074.00							
	Area Weightage @ 10 %	507.40							
	Total Rate	5581.40							
	Lift Charges @ 1%	55.81							
	Total Rate	5637.21							
27	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. (vol-2 P.No. 107, I.No. 12.68.1 of PWP & IWTD SR 2023-24)								
		Each	8				8.00		
						Total :-	8.00	41.80	33
	Rata Analysis								
	Basic Rate	38.00							
	Area Weightage @ 10 %	3.80							
	Total Rate	41.80							
28	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete. (vol-2 P.No. 107, I.No. 12.60 of PWP & IWTD SR 2023-24)								
		Each	6				6.00		
						Total :-	6.00	915.20	5,49
	Rata Analysis								
	Basic Rate	832.00							
	Area Weightage @ 10 %	83.20							
	Total Rate	915.20							
29	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete (vol-2 P.No. 107, I.No. 12.63 of PWP & IWTD SR 2023-24)								
		Each	8				8.00		
						Total :-	8.00	122.10	97
	Rata Analysis								
	Basic Rate	111.00							
	Area Weightage @ 10 %	11.10							
	Total Rate	122.10							
30	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete (vol-2 P.No. 107, I.No. 12.63 of PWP & IWTD SR 2023-24)								
		Each	8				8.00		
						Total :-	8.00	122.10	97
	Rata Analysis								
	Basic Rate	111.00							
	Area Weightage @ 10 %	11.10							

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (Rs.)
	Total Rate	122.10							
31	Providing and fixing Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in_x005f_x0002_Charge (Pwd Sr 2023-24 Vol-02 Page No 84 Item No 11.25.2)								
	For Windows and Ventilators	Kgs							
	Windows W1		6	1.55		1.20	11.16		
	Ventilators V1		2	0.75		0.65	0.98		
							12.14		
	Consider 24.5Kgs Per Sqm						297.31		
	For Safety Grill	Kgs							
	GF		1	1.50		2.70	4.05		
	FF		1	20.00		2.10	42.00		
			2	1.20		2.10	5.04		
	Head Room Door		1	1.20		2.10	2.52		
							53.61		
	Consider 40Kgs Per Sqm						2144.40		
	Roof Area		1	4.60	2.40		11.04		
	Consider 30Kgs Per Sqm						331.20		
	Total :-						2772.91	151.10	4,18,97
	Rata Analysis								
	Basic Rate	136.00							
	Area Weightage @ 10 %	13.60							
	Total Rate	149.60							
	Lift Charges @ 1%	1.50							
	Total Rate	151.10							
32	Providing and laying flooring and steps fine machine polished granite stone slabs 20 mm thick on cement mortar bed 1:6, 20 mm thick, and joints fin_x0002_ished with cement mortar 1:3over existing cement concrete bed , including cost of materials, mortar, labour, curing complete as per specifications..(Pwd Sr 2023-24 Vol-02 Page No 64 Item No 9.30)								
	Granite Flooring								
	Class Room 1		1	6.8	4.50		30.60		
	Class Room 2		1	6.8	4.50		30.60		
	Corrider Floor		1	20.0	1.20		24.00		
	Stair Case Area		1	4.5	2.20		9.90		
	For Skriting								
	Class Room 1		1	10.30		0.15	1.55		
			1	11.30		0.15	1.70		
	Class Room 2		1	10.30		0.15	1.55		
			1	11.30		0.15	1.70		
	Corrider Floor		1	12.00		0.15	1.80		
	Stair Case Area		1	6.70		0.15	1.01		
	For Steps								
	Rise		19	0.13	1.10		2.72		
	Thread		19	0.25	1.10		5.23		
	Landing		1	2.40	1.25		3.00		
	For Class Room Stage		4	3.30	1.10		14.52		
	For Side Cladding		4	3.30		0.20	2.64		
			8	1.10		0.20	1.76		
	Enterance Steps								
	Rise		6	0.15	3.00		2.70		
	Thread		6	0.30	3.00		5.40		
	Total :-						142.35	5919.41	8,42,60
	Rata Analysis								
	Basic Rate	5328.00							

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (Rs.)
	Area Weightage @ 10 %	532.80							
	Total Rate	5860.80							
	Lift Charges @ 1%	58.61							
	Total Rate	5919.41							
33	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitablearrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (Pwd Sr 2023-24 Vol-02 Page No 85 Item No 11.28)								
	SS Railings	Kgs							
	Waist Slab 1		1	3.60		1.10	3.96		
	Waist Slab 2		1	2.10		1.10	2.31		
	Enterance Steps		4	0.90		0.90	3.24		
	Ground Floor Corrider		1	20.00		1.10	22.00		
	Deduction Enterance Steps		-2	3.00		1.10	-6.60		
							24.91		
					Consider 13.2Kgs Per Sqm		328.81		
					Total :-		328.81	627.72	2,06,40
	Rata Analysis								
	Basic Rate	565.00							
	Area Weightage @ 10 %	56.50							
	Total Rate	621.50							
	Lift Charges @ 1%	6.22							
	Total Rate	627.72							
	ELECTRICAL WORK								
34	Concealed Conduit System: Supplying .... Mm dia 2mm2.5mm Thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc ... and running before concreting th eslab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be convered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary (P.No. 1, I.No. 1.2 of PWD Ele SR 2021-22)								
34.1	1.2.2) 25mm dia 2mm thick		1	50.00			50.00		
							50.00	70.00	3,5
		M							
	Basic Rate	70.00							
	Total Rate	70.00							
35	Supplying heavy gauge PVC Conduit Pipe .... dia ..... mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering upto the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. (P.No. 1, I.No. 1.3 of PWD Ele SR 2021-22)								
35.1	1.3.2) 25 mm dia 2 mm thick		1	50.00			50.00		
							50.00	80.00	4,0
		M							
	Basic Rate	80.00							
	Total Rate	80.00							
36	Supplying and wiring adopting loop system in existing pvc conduit/casing caping using 1100v grade,COPPER conducter flexible multistrand FRLS PVC insulated,2x1.5Sq.mm Cable confirming to the GTP without switch,the other end of the wire shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet. Point wiring using Copper wire without Switch. (P.No. 5, I.No. 2.2 of PWD Ele SR 2021-22)								

	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount
36.1	2.2.2)Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box		2				2.00		
							2.00	361.00	722
		Nos							
	Basic Rate	361.00							
	Total Rate	361.00							
37	Suppling and fixing PVC/metal conduit deep juction boxes (P.No. 3, I.No. 1.5 of PWD Ele SR 2021-22)						6.00		
37.1	1.5.2) 25mm deep juction box		6				6.00	51.00	30
		Each							
	Basic Rate	51.00							
	Total Rate	51.00							
38	Supplying and flush mounting powder coated metal box suitable for mounting modular switch plates.The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall (P.No. 9, I.No. 3.4 of PWD Ele SR 2021-22)						3.00		
38.1	3.4.1) 1-3Way		3				3.00	123.00	3
		Each							
	Basic Rate	123.00							
	Total Rate	123.00							
							3.00		
38.2	3.4.2) 4-5Way		3				3.00	138.00	4
		Each							
	Basic Rate	138.00							
	Total Rate	138.00							
39	Wiring for lighting /power circuit using one of PVC insulated 1100v grade,multis and Copper conductor single core cable in open or consealed system of wiring.(P.No. 5, I.No. 2.3 of PWD Ele SR 2021-22)						30.00		
39.1	2.3.3) 2.5 sqmm		1	30.00			30.00	40.00	1,
		mtr							
	Basic Rate	40.00							
	Total Rate	40.00							
40	Supplying and fixing of modular switch/Socket/stepped electeonic fan regulator/ dimmer/telephone socket etc on existing modular switch plate.(P.No. 10, I.No. 3.6 of PWD Ele SR 2021-22)						20.00		
40.1	3.6.1) 6A mps one way		20				20.00	88.00	1
		Each							
	Basic Rate	88.00							
	Total Rate	88.00							
							10.00		
40.2	3.6.2) 6A mps Two way		10				10.00	152.00	1
		Each							
	Basic Rate	152.00							
	Total Rate	152.00							
41	Supplying and fixing superior gality modular switch mounting polycorbonate plate with neceaary supporting back plate with rquired nos. of machine screwes, bolts nuts etc., complete on the existing metal/PVC box..(P.No. 10, I.No. 3.6 of PWD Ele SR 2021-22)						2.00		
41.1	3.5.1) 1 to 3 Module		2				2.00	152.00	
		Each							
	Basic Rate	152.00							
	Total Rate	152.00							

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (Rs.)
41.2	3.5.3) 6 Module		1				1.00		244.0
							1.00	244.00	
		Each							
	Basic Rate	244.00							
	Total Rate	244.00							
42	Supplying and fixing regular MCB distribution boards on wall/ woodboard /flush mounting required clamps,bolts,nuts etc.. with provision for fixing suitable type capacity MCB's single phase /3 phase /single door with powder coated painting etc., complete (P.No. 27, I.No. 5.18 of PWD Ele SR 2021-22)								
42.1	5.18.7) 8Way SP & N		2				2.00		
							2.00	1695.00	3,390.
		Each							
	Basic Rate	1695.00							
	Total Rate	1695.00							
42.2	5.18.8) 12Way SP & N		1				1.00		
							1.00	2067.00	2,067
		Each							
	Basic Rate	2067.00							
	Total Rate	2067.00							
43	Supplying and fixing and wiring Earth Leakage Miniature Circuit Breaker [RCCB] 240/450V up 300mA sensitivity on exsiting wood/panel board. (P.No. 28, I.No. 5.19 of PWD Ele SR 2021-22)								
43.1	5.19.2)32-40 Amps 2 Pole		2				2.00		
							2.00	4831.00	9,66
		Each							
	Basic Rate	4831.00							
	Total Rate	4831.00							
43.2	5.19.3)32-40 Amps 4 Pole		2				2.00		
							2.00	4677.00	9,3
		Each							
	Basic Rate	4677.00							
	Total Rate	4677.00							
44	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia (P.No.40, I.No. 6.1 of PWD Ele SR 2021-22)								
			1				1.00		
							1.00	2999.70	2,9
		Each							
	Basic Rate	2999.70							
	Total Rate	2999.70							
45	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts. (P.No 40, I.No. 6.2 of PWD Ele SR 2021-22)								
			2				2.00		
							2.00	4150.00	8,
		Each							
	Basic Rate	4150.00							
	Total Rate	4150.00							

	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (Rs.)
	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. (P.No. 55, I.No. 7.3 of PWD Ele SR 2021-22)								
4.1	GI strip ((7.3.2)25x6mm)		1	30.00			30.00		3,540.0
							30.00	118.00	
		Mtr							
	Basic Rate	118.00							
	Total Rate	118.00							
47	Supplying of recess mounting non integrated type LED down light 15-18W luminaire comprising of pressure decast/ extruded aluminium housing, with spring loaded false ceiling clA, LED of Power/COB with CCT 6500 degree K, CRI> 70%. efficacy >100 lumen per W, 120degree beam spread, life> 25000 burning hours and Compliance to IS10322/IEC 60598, LM 79 & LM 80. The lamp compartment is enclosed with anti glare opal diffuser which enhances the lighting level. LED's are driven by HF electronic driver integrated in a separate control gear assembly., with PF > 0.95, power loss should< 5% of lamp Wage, short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 V. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition. (P.No. 34, I.No. 11.4 of PWD Ele SR 2021-22)								
			15				15.00		32,61
							15.00	2174.00	
		Each							
	Basic Rate	2174.00							
	Total Rate	2174.00							
48	Fixing all types and all capacities of fluorescent / fales ceiling /spot light /CFL / LED fittings indoor on the wall /ceiling / refters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps .(P.No. 34, I.No. 13.7 of PWD Ele SR 2021-22)								
	13.7.1 On wall/ ceiling / Rafter / Girders		15				15.00		1,7
							15.00	119.00	
		Each							
	Basic Rate	119.00							
	Total Rate	119.00							
49	Supplying exhaust fan of 1440 RPM of 300 mm (12") size with bracket blades complete for light duty suitable for operate of 230V 50Hz, AC Supply. (P.No. 22, I.No. 6.1 of PWD Ele SR 2021-22)								
			2				2.00		
							2.00	1542.00	3,0
		Each							
	Basic Rate	1542.00							
	Total Rate	1542.00							
50	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge. (P.No. 128, I.No. 14.31 of PWP & IWTD SR 2021-22,Vol-II)								
			2				2.00		
							2.00	110.00	
		Each							
	Basic Rate	100.00							
	Area Weightage @ 10%	10.00							
	Total Rate	110.00							
51	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double bail bearing system 48" Sweep (1200mm)(P.No. 22, I.No. 6.4 of PWD Ele SR 2021-22)								
	6.4.1)Regular model (Khaitan, Crompton Greaves, Orient, Polar, Bajaj, Usha, Havells, Almonard)		6				6.00		
							6.00	2949.00	1

	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amo
		Each							
	Basic Rate	2949.00							
	Total Rate	2949.00							
52	**Fixing a ceiling / wall mounting fan** of all capacities and all types to the existing 's' hook with fan regulator to the existing board together with supplying and fixiting 5amps . Ceiling rose, necessary length of 23/0.0076 inch PVC insulated twin twisted copper wire and wiring .(P.No. 34, I.No. 13.8 of PWD Ele SR 2021-22)								
			6				6.00		
							6.00	150.00	900.
		Each							
	Basic Rate	150.00							
	Total Rate	150.00							
53	Providing and fixing **brass bib cock** of approved quality : 20 mm nominal bore (P.No. 114, I.No. 13.2.2 of PWP & IWTD SR 2023-24,Vol-II)								
		Each					10.00		
			10				10.00	379.50	3,795
	Rata Analysis								
	Basic Rate	345.00							
	Area Weightage @ 10%	34.50							
	Total Rate	379.50							
54	Providing and fixing **brass stop cock** of approved quality : 20 mm nominal bore(P.No. 114, I.No. 13.3.2 of PWP & IWTD SR 2023-24Vol-II)								
		Each					5.00		
			5				5.00	379.50	1,89
	Rata Analysis								
	Basic Rate	345.00							
	Area Weightage @ 10%	34.50							
	Total Rate	379.50							
55	Providing and fixing **PTMT grating** of approved quality and colour Circular type 100 mm nominal dia.(P.No. 118, I.No. 13.22.1.1of PWP & IWTD SR 2023-24,Vol-II)								
		Nos					5.00		
			5				5.00	97.90	4
	Rata Analysis								
	Basic Rate	89.00							
	Area Weightage @ 10%	8.90							
	Total Rate	97.90							
56	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete. (P.No. 128, I.No. 14.31 of PWP & IWTD SR 2023-24,Vol-II)								
		Each	4				4.00		
	Ground Floor						4.00	1068.10	4,
	Rata Analysis								
	Basic Rate	971.00							
	Area Weightage @ 10%	97.10							
	Total Rate	1068.10							
57	Constructing brick masonry chamber of internal dimension 600x450mm and depth of 600mm (inner dimensions) with modular bricks of CD 75 in cement mortar 1:6, bed concrete 150mm thick with 1:3:6, plastering 12 mm thick with cement mortar 1:4, CC 1:2:4 coping 75mm thk for fixing CI cover & frame etc. excluding the cost of CI frame and cover (P.No. 187, SOR CODE-T130A of PWP & IWTD SR 2021-22 Vol-V)								
		Each	4				4.00		
	Chamber						4.00	4811.40	19
	Rata Analysis								
	Basic Rate	4374.00							
	Area Weightage @ 10%	437.40							
	Total Rate	4811.40							

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (R
58	Providing and fixing **wash basin** with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required: using White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer. (P.No. 83, I.No. 12.26 of PWP & IWTD SR 2018-19)								
	Ground Floor	Each	4				4.00		
							4.00	**3958.90**	**15,836**
	Rata Analysis								
	Basic Rate	3599.00							
	Area Weightage @ 10%	359.90							
	Total Rate	**3958.90**							
59	Providing & fixing White vitreous china **water closet** squatting pan **(Indian type)** along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material i/c malba, all complete as per the direction of Engineer-in charge. **Orissa pattern** W.C Pan of size 580x440 mm(P.No. 178, I.No. 20.44.2 of PWP & IWTD SR 2021-22)								
	Ground Floor	Pan	2				2.00		
							2.00	**6747.40**	**13,495**
	Rata Analysis								
	Basic Rate	6134.00							
	Area Weightage @ 10%	613.40							
	Total Rate	**6747.40**							
60	Providing and fixing white vitreous china pedestal type **water closet (European type)** with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid(P.No. 123, I.No. 14.3.1 of PWP & IWTD SR 2021-22)								
	Ground Floor	Each	2				2.00		
							2.00	**5505.50**	**11,011.**
	Rata Analysis								
	Basic Rate	5005.00							
	Area Weightage @ 10%	500.50							
	Total Rate	**5505.50**							
61	Providing and fixing **Chlorinated Polyvinyl Chloride (CPVC) pipes**, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge Concealed work, including cutting chases and making good the walls etc. **15mm nominal dia pipes.**(I.No. 13.32.1 of PWP & IWTD SR 2021-22,1st Corrigendum and Addendum order - 21-04-2022)								
	15-mm nominal dia	Mtr	70				70.00		
							70.00	**336.60**	**23,562.00**
	Rata Analysis								
	Basic Rate	306.00							
	Area Weightage @ 10%	30.60							
	Total Rate	**336.60**							
62	Providing and fixing **Chlorinated Polyvinyl Chloride (CPVC) pipes**, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge Concealed work, including cutting chases and making good the walls etc. **20mm nominal dia pipes** (I.No. 13.32 2 of PWP & IWTD SR 2021-22,1st Corrigendum and Addendum order - 21-04-2022)								
	20-mm nominal dia	Mtr	50				50.00		

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (Rs.)
							50.00	410.30	20,515.00
	Rata Analysis								
	Basic Rate	373.00							
	Area Weightage @ 10%	37.30							
	Total Rate	410.30							
63	Providing and fixing **Chlorinated Polyvinyl Chloride (CPVC) pipes**, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge Concealed work, including cutting chases and making good the walls etc. **25mm nominal dia pipes.**(I.No. 13.32.3 of PWP & IWTD SR 2021 22,1st Corrigendum and Addendum order - 21-04-2022)								
	25-mm nominal dia	Mtr	50				50.00		
							50.00	523.60	26,180.00
	Rata Analysis								
	Basic Rate	476.00							
	Area Weightage @ 10%	47.60							
	Total Rate	523.60							
64	Providing and fixing **Chlorinated Polyvinyl Chloride (CPVC) pipes**, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge Concealed work, including cutting chases and making good the walls etc. **32mm nominal dia pipes.**(I.No. 13.32.4 of PWP & IWTD SR 2021-22,1st Corrigendum and Addendum order - 21-04-2022)								
	32-mm nominal dia	Mtr	50				50.00		
							50.00	611.60	30,580.00
	Rata Analysis								
	Basic Rate	556.00							
	Area Weightage @ 10%	55.60							
	Total Rate	611.60							
65	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :14.5.1 Single half stall urinal with 5 litre P.V.C. automatic flushing cistern(I.No. 14.5.1 of PWP & IWTD SR 2023-24,Vol-2)								
	Urinals	Each	2				2.00		
							2.00	7290.80	14,582.00
	Rata Analysis								
	Basic Rate	6628.00							
	Area Weightage @ 10%	662.80							
	Total Rate	7290.80							
66	Providing and placing on terrace(at all floor levels), polyethylene water storage tanks as per IS 12701 marked,with cover and suitable locking arrangement and making necessary holes for inlet,outlet and overflow pipes but without fittings and the base support for tank(For 1000 litre capacity) (PWD SR 2021-22 1st Corrigenda Vol II.Sl No.12.Item No 13.34)								
	Water Storage Tank	ltr	2000				2000.00		
							2000.00	8.80	17,600.00
	Rata Analysis								
	Basic Rate	8.00							
	Area Weightage @ 10%	0.80							
	Total Rate	8.80							

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs.)	Amount (Rs.)
67	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum.(Tipper 14 m3) (P.No. 3, I.No.1.1 C of Vol-3 PWP & IWTD SR 2021-22)								
		Cum							
	Refer Item no -01 Consider 80%						53.25		
						Total :-	53.25	81.40	4,334.26
	Rata Analysis								
	Basic Rate	74.00							
	Area Weightage @ 10 %	7.40							
	Total Rate	81.40							
68	Cost of Haulage Excluding Loading and Unloading Taking output 25 t load and lead 10 km = 250 t.km(P.No. 3, I.No.1.4 (i) C of Vol-3 PWP & IWTD SR 2021-22)								
		t.km							
	Qty Vide Item No 67						53.25		
						Total :-	53.25	105.60	5,622.82
	Rata Analysis								
	Basic rate (15x1.28x5)	96.00							
	Area Weightage @ 10 %	9.60							
	Total Rate	105.60							
69	Providing & fixing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete as per design drawings (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required as per the direction of Engineer in charge.0.63 mm thick with zinc coating not less than 275 g/ m² Pwd Sr 2023-24 Vol-03 Page No 3,Item No.7.1.2)								
	Head Room	Sqm							
	Roof Area		1	4.60	2.40		11.04		
						Total :-	11.04	966.90	10,674.58
	Rata Analysis								
	Basic Rate	879.00							
	Area Weightage @ 10 %	87.90							
	Total Rate	966.90							
						Total Construction cost :-			42,35,925.69
						Gst Charges 18% :-			7,62,466.62
						Miscellaneous Charges :-			1,607.68
						Grand Total :-			50,00,000.00

Administrative Sanction for Rs. 50.00 Lakh
Rupees Fifty lakhs Only
is accorded under head P.-1878
Registered as CE No. ... Subject
to conditions contained in enclosed memo
No. BBMP/EE/YNH-DRS/27/24-25 Dt. 19/10/24

Executive Engineer

CERTIFICATE :-

1. Certified that I personally visited the spot
2. Certified that only required items are incorporated in the estimate.
3. Certified that the work is essential and required.
4. Estimate is prepared on the basis of PWD SR for the year 2023-24
5 This area comes under the BBMP limits.

Technical Sanction
Accorded For Rs. 50.00 Lakh
Head of A/C... P.-1878...
CER NO :... 82 ..... Dt: 19/10/24

Assistant Engineer
BBMP-Bangalore

Assistant Executive Engineer
BBMP-Bangalore

Executive Engineer
BBMP-Bangalore